1 VQE results Aer Estimator (With Shots)

(Full Hamiltonian) Double Well $\Lambda = 2$ COYBLA Max 10k Iterations

Ansatz	Tolerance	Shots	Converged runs	Mean iter	VQE min E.	σ_{min}	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time
RA r1 rl	1e−01	10000	100/100	28	3.5732e−01	2.4492e−04	8.2843e−05	3.7143e−01	1.4196e−02	3.5723e−01	00h 05m 08s
RA r1 rl	1e−02	10000	100/100	44	3.5723e−01	0e+00	4.4409e−16	3.5981e−01	2.5801e−03	-	00h 08m 02s
RA r1 rl	1e−03	10000	100/100	51	3.5723e−01	0e+00	4.4409e−16	3.5974e−01	2.5029e−03	-	00h 08m 23s
RA r1 rl	1e−04	10000	100/100	62	3.5723e−01	0e+00	4.4409e−16	3.5978e−01	2.5483e−03	-	00h 10m 13s
RA r1 rl	1e−05	10000	100/100	70	3.5723e−01	0e+00	4.4409e−16	3.61e−01	3.7647e−03	-	00h 11m 32s
RA r1 rl	1e−06	10000	100/100	81	3.5723e−01	0e+00	4.4409e−16	3.6063e−01	3.3978e−03	-	00h 13m 14s
RA r1 rl	1e−07	10000	100/100	87	3.5723e−01	0e+00	4.4409e−16	3.5984e−01	2.6039e−03	-	00h 14m 18s
RA r1 rl	1e−08	10000	100/100	96	3.5723e−01	0e+00	4.4409e−16	3.5995e−01	2.7175e−03	-	00h 15m 44s
Ansatz	Tolerance	Shots	Converged runs	Mean iter	VQE min E.	σ_{min}	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time

Table 1